

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT
BUREAU OF ENVIRONMENTAL REMEDIATION
SITE EVALUATION DECISION

SITE NAME: United Zinc #1 Site KDHE ID #: C300171726

City: Iola County: Allen State: Kansas

Refer to Report Dated: September, 2005 Report type: Preliminary Removal Evaluation (PRE)

Project Manager: Randolph L. Brown L.P.G., KDHE/BER

DECISION:

☐ 1. Further Remedial Action Recommended:

- ☐ Site referred to Enforcement/Negotiation Program
- ☐ Site referred to State Cooperative/Voluntary Program
- ☐ Site referred to UST/AST/Dry Cleaner Trust Fund
- ☐ Site referred to State Water Plan
- ☐ Other:

☒ 2. Further CERCLA Site Assessment Recommended: Priority: ☒ Higher ☐ Lower
Activity Type: ☐ PA ☐ PA/SSI ☒ Removal Evaluation/Removal Action

☐ 3. Referral to Another Regulatory Program.
(Program deferred to: _____)

☐ 4. No Further Action Recommended

40223124



SUPERFUND RECORDS

DISCUSSION/RATIONALE: The site includes the former United Zinc #1 primary lead and zinc smelter and surrounding residential and non-residential properties. Sampling was conducted by a KDHE contractor in 2004 and 2005. These results indicated lead present above residential Risk-based Standards for Kansas (RSK) levels in addition to arsenic, cadmium and zinc. Multiple residential yards were determined to be impacted.

KDHE conducted this PRE in a short timeframe to further evaluate two sensitive receptor areas within the site, the McKinley Elementary School (McKinley) and the Iola Preschool. Elevated levels of lead were identified in the school yard and adjacent areas at McKinley, with the maximum detection from the limited laboratory analyses of 1,980 mg/kg within the McKinley playground area. This is above both residential (400 mg/kg) and non-residential (1,000 mg/kg) RSK levels. Elevated levels of arsenic above the residential RSK level of 11 mg/kg were identified corresponding with elevated lead detections over 400 mg/kg. The Iola Preschool did not indicate any detections at or above 400 mg/kg in the play areas and adjacent yard.

The location of elevated lead and other heavy metal detections in residential and a sensitive receptor area are qualifying conditions for referral for a time-critical removal action consistent with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). KDHE's attempts at identifying potentially responsible parties for the known operating entities at the smelter have not been successful, and KDHE has no other programmatic options at its disposal to conduct the response actions.

The PRE data indicate that a significant soil impact of heavy metals is present at the site. Further removal site evaluation and a removal action consistent with the NCP are warranted at this site. KDHE will assist with further removal evaluation at the site as resources permit, and will conduct any post-removal assessments consistent with the NCP.

Report Reviewed and Approved by:

Signature:

Date:

Randolph L. Brown

Unit Chief, Site Assessment Unit/Remedial Section/Bureau of Environmental Remediation

09/27/05

Site Decision Made by:

Signature:

Date:

Rick L. Bean

Section Chief, Remedial Section/Bureau of Environmental Remediation

09/29/05